TheatreCom

Portable LED Stage Lighting

User Manual

TheatreCom

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1 General Description

TheatreCom portable LED stage lighting kits offer safe and easy to use professional quality stage lighting. This product is suitable for temporary or permanent venues.

A TheatreCom installation consists of a mains-powered lighting control and TheatreCom LED lights, connected by TheatreCom LED cables.

Top Hex provides all TheatreCom products with a comprehensive one-year warranty.

We also offer a lifetime repair guarantee. If after one year, your product fails for any reason, we will repair it at a very low cost. In the unlikely event that we cannot repair the product, we will offer a refurbished product of similar specification at a discounted price.

2 Safety

There is no reason for you to open the cover, so do not attempt to remove it. Removing the cover may result in an electrical shock and will also mean your warranty will no longer be valid.

You should only use the TheatreCom portable LED stage lighting indoors and only in the way we have described in this manual. If you use this product for any other purpose, you may cause harm and your warranty will no longer be valid.

If you do not know how to use this product safely, contact TheatreCom for advice. You can find our contact details at the end of this manual.

TheatreCom LED floodlights and spotlights operate at a safe Voltage of 48V and the output from the lighting control is protected. However, it is important to inspect any cables or connectors for damage before use.

We use a fan to cool the LED lights to stop them from getting too hot. If the fan fails or the lights over-heat, the lights will automatically turn off.

As with all stage lighting, TheatreCom lights are bright. We recommend you avoid staring directly at the LEDs. When you turn the power onto the lighting control, we recommend you turn the fader down to the lowest level to make sure the lights do not startle you.

3 Unpacking

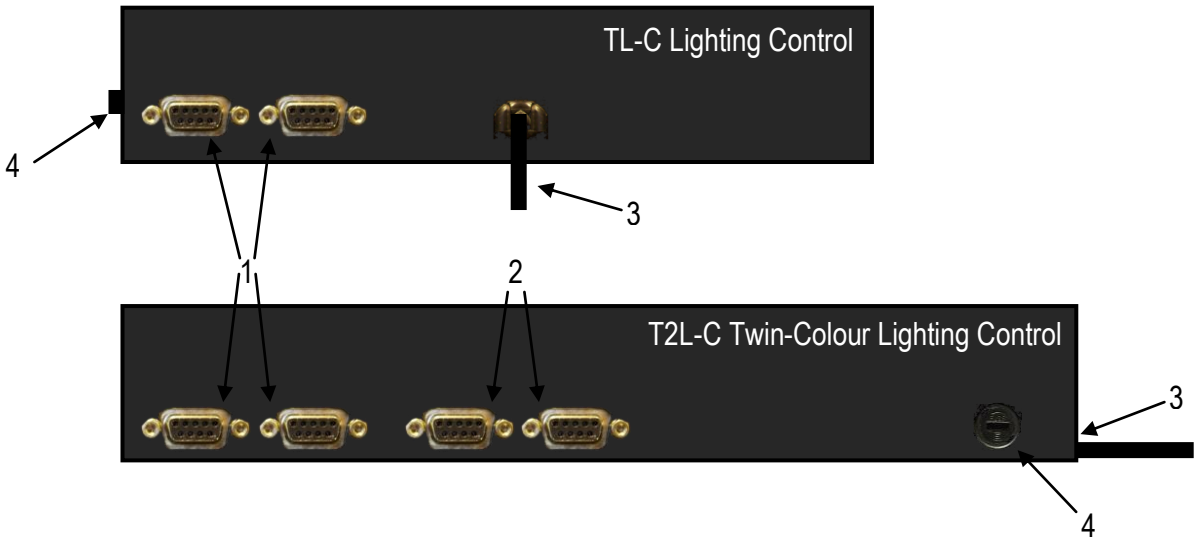
We take great care to ensure your TheatreCom lighting kit reaches you in perfect condition. After unpacking, please check for any damage to the unit, keeping hold of any packing materials in case you need to return the unit to us.

We recommend you check the package when you receive it to make sure it is complete. We have provided a list of parts included with each package or kit in the Product Range section of this manual.

4 Connections

2

4.1 Lighting Control



4.1.1 Lighting Outputs

You can power a maximum of 5 TheatreCom LED lights from the lighting outputs. The lighting output sockets are identical, so you can use either one or both.

You can connect two LED lights directly to the Lighting Control. You can connect additional lights to these in a “daisy chain” using the lighting outputs on the LED lights.

4.1.2 Second Lighting Outputs (T2L-C Twin-Colour Lighting Control only)

You can power a maximum of 5 additional TheatreCom LED for the second lighting outputs. Once again, the lighting output sockets are identical, so you can use either one or both.

You can connect two LED lights directly to the second lighting outputs. You can connect additional lights to these in a “daisy chain” using the lighting outputs on the LED lights.

You can connect a maximum of 5 TheatreCom LED floodlights to the TL-C Lighting Control. You can connect a maximum of 10 TheatreCom LED floodlights to the T2L-C Twin Colour Lighting Control.

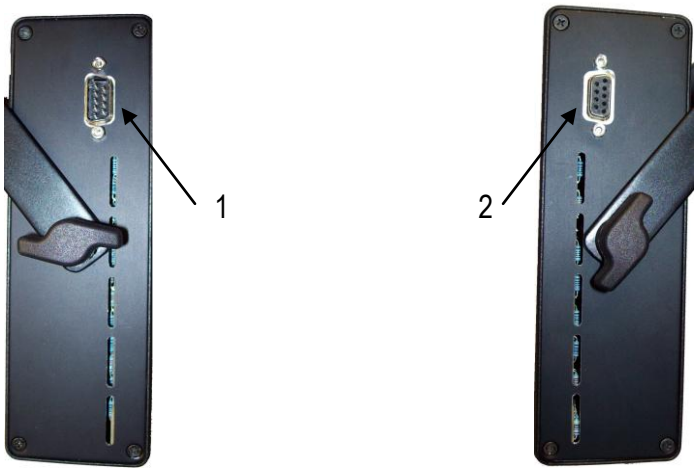
4.1.3 Mains lead

The mains lead (3) is fitted with a 3A fuse.

4.1.4 Fuse

The unit is also protected by a 3.15AT (slow blow) 20mm fuse (4), which if needed you can replace yourself.

4.2 LED Lights



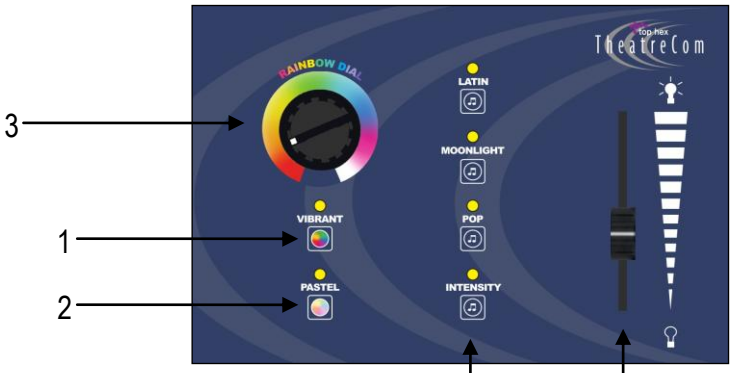
4.2.1 Lighting Input

You can connect the lighting input (1) to the LED cable from the Lighting Control or from the previous LED Floodlight in the chain.

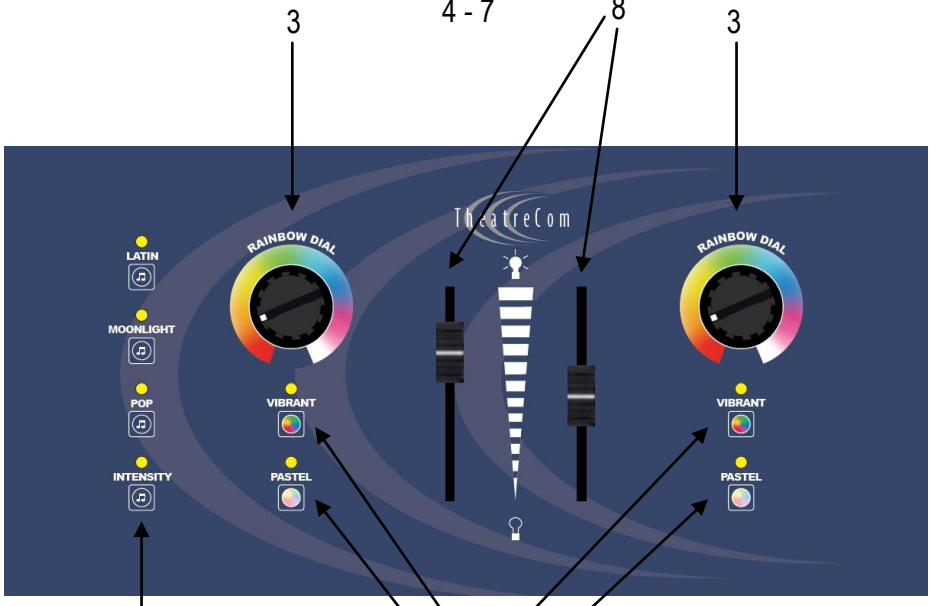
4.2.2 Lighting Output

If needed, you can use the lighting output (2) to connect to the next TheatreCom LED light in the chain. You can connect a maximum of 5 LED lights to one lighting output.

5 Lighting Control



TL-C Lighting Control



T2L-C Twin-Colour Lighting Control

5.1 Colour Modes

You can either set the lights to a fixed colour (1, 2, 3) or you can set the lights to respond to music (4, 5, 6, 7).

There are two different fixed colour modes.

To display vibrant reds, blues and greens, choose VIBRANT mode. (1)

For more subtle lighting using pastel colours, choose PASTEL mode. (2)

The twin-colour lighting control has two sets of controls allowing you to set each group of lights to a different colour.

5.1.1 Choosing VIBRANT mode (1)

Press VIBRANT (1) and the indicator above the vibrant button will light up. Use the RAINBOW DIAL to change the colour and the FADER DIAL to make the colour brighter or darker.

5.1.2 Choosing PASTEL mode (2)

Press PASTEL (2) and the indicator above the pastel button will light up. Use the RAINBOW DIAL to change the colour and the FADER DIAL to make the colour brighter or darker.

5.1.3 Using the RAINBOW DIAL (3)

The RAINBOW DIAL (3) controls all lights connected to the Lighting Control and displays the following colours:

Red, Orange, Yellow, Green, Blue, Purple, Pink, White

As you turn the dial, the lights fade gradually between colours so you can select from an unlimited range of colours. Turning the dial all the way over to the right will set the lights to a warm white, to light up your performance area without colour.

5.1.4 Advanced colour change feature

If you would like to change the lights from one colour with another without the lights changing through the intermediate colours on the rainbow dial, you can carry out the following sequence.

Depending whether you are in vibrant or pastel mode, hold down the vibrant or pastel button for about 2 seconds.

The indicator light about the button will flash. Release the button

Rotate the rainbow to the colour you would like the lights to change to. Please note the lights will not change colour at this stage.

Press the vibrant or pastel button for the lights to change to the colour on the rainbow dial.

5.2 Music Modes

There are three different music modes. In these modes, your lights will respond to a music beat using a microphone inside the Lighting Control. The three modes are POP, LATIN and MOONLIGHT.

5.2.1 Choosing Latin mode (4)

For a medium beat, use LATIN mode. In this mode, the lights will change between the colour you set on the RAINBOW DIAL and three contrasting colours, which we select automatically. The colours will change a maximum of once per second.

Press LATIN and the indicator above the Latin button (5) will light up. Use the FADER DIAL to make the colours brighter or darker.

5.2.2 Choosing Moonlight mode (5)

For a more gradual change, suited to a slower piece of music such as waltz, choose MOONLIGHT mode. In this mode, the lights will change between the colour you set on the RAINBOW DIAL and four matching colours, which we select automatically. The colours will change a maximum of once every two seconds.

Press MOONLIGHT and the indicator above the moonlight button (6) will light up. Use the FADER DIAL to make the colours brighter or darker.

5.2.3 Choosing POP mode (6)

For a fast beat, select POP mode. In this mode, the colours are random and you cannot change them. The colours change a maximum of twice per second.

Press POP and the indicator above the pop button (4) will light up. Use the FADER DIAL to make the colours brighter or darker.

5.2.4 Choosing Intensity mode (7)

You can select the INTENSITY sound mode. In this mode, the lights get brighter as the sound gets louder. This works well for a lightning effect as the lights will respond to a thunder type sound. It also responds well to speech.

Press INTENSITY and the indicator above the intensity button (7) will light up. Use the RAINBOW DIAL to change the colour.

5.3 Using the FADER button (8)

Slide the button up to make the lights brighter and down to make them darker.

6 TheatreCom LED Cables

The cables for your TheatreCom LED stage lighting system have a 9 pin D socket at one end and a 9 pin D plug at the other end. You can buy cables from us in standard or custom lengths.

7 Installation

Before installing your TheatreCom portable LED stage lighting, we suggest you set up one or two LED floodlights with a Lighting control so you have a practice with the connections and controls.

7.1 Mounting the lights

You can use the bracket fitted to your LED Floodlights to mount the light in several ways.

- Fit the light to a TheatreCom TL-B base and place it on the floor.
- Fit the light to a TheatreCom TL-T T-bar lighting stand
- Hang the light can from a standard 50mm lighting bar. We advise you fit a safety chain to make sure the light is secure.
- Screw the light directly to a wall, ceiling or beam, using the screw holes in the bracket. We advise you fit a safety chain to make sure the light is secure.

7.1.1 Using the TL-B floor mounting base

The clamp fits on to the base as shown above.

7.1.2 Using the TL-T T-bar lighting stand

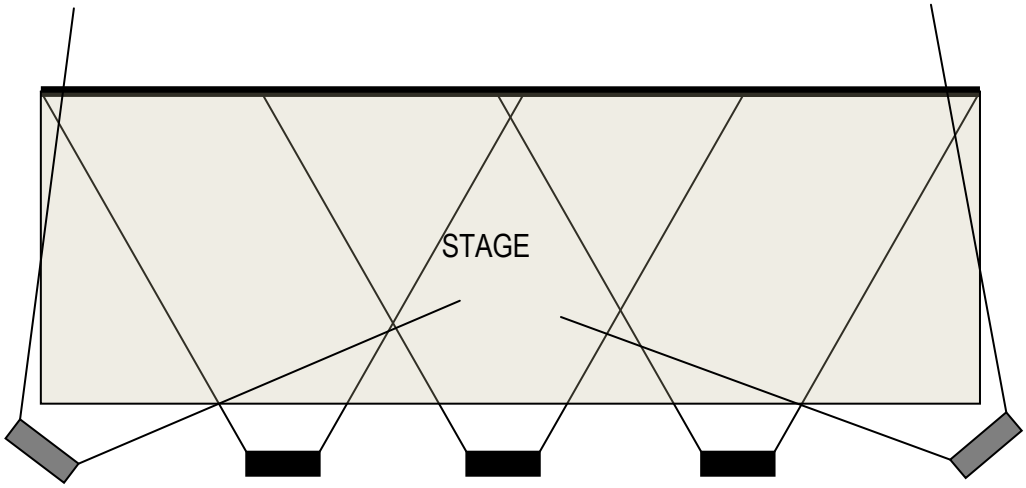
The T-bar lighting stand can hold 4 TheatreCom LED lights. The lights can be raised 2.5m high. When putting up the stand, ensure the legs are spread so that the stand is stable. Do not over-extend the stand. Ensure that all knobs are tight.

Lights are fitted to the stand as shown in the diagram above. You should fit the washer between the lighting stand and the light to allow the light to be rotated easily. You must secure each light to the bar with a cable tie to prevent the light from falling down in the unlikely event that the bolt should become loose.

7.2 Positioning the TL-L LED floodlights

One LED floodlight will light up approximately 1m to 2m of stage. You can improve your lighting coverage by using more lights.

The LED floodlights have a beam angle of approximately 30 degrees from centre. Allowing the beams to cross will minimise shadows and improve the overall lighting effect. If you are using floor-mounted lights to light a stage, consider changing the angle of the outer lights. We have provided an illustration below.



You can achieve the best lighting coverage by raising the outside lights (shown in grey) by fitting them to a stand such as the TL-T T-bar lighting stand.

7.3 Positioning the TL-S LED spotlights

The spotlights can be used to highlight a particular area of the stage. The spotlights have a beam angle of approximately 7 degrees from centre. If the spotlight is about 4m from the subject, the diameter of the spot will be approximately 1m. The spotlights work best if you shine 2 lights in different positions at the same point.

8 Troubleshooting

1. **One of the colours (red, green or blue) is not showing up.**

(i) The most likely reason is that you have not screwed in one of the cables properly. Check you have pushed in the LED lighting cables and the screws are not loose.

2. **The light works for a time then goes off.**

(ii) We have protected the lights using an over-temperature circuit that turns them off to prevent over-heating. Check the fan in the back of the light is rotating freely and that there is nothing in the way of it. In the event of a problem with this, contact us to arrange returning the unit for repair.

3. **None of the lights work.**

(iii) Check there at least one indicator lit up on the Lighting Control, this confirms the power is working. If not you should first check the power is on and then check the fuses in the mains plug and the back of the Lighting control.

(iv) Try connecting the Lighting Control into just one LED floodlight via a short cable. Add the lights one by one to identify a faulty light or cable.

4. **The lighting control or LED floodlight has stopped working.**

(i) Contact us to arrange returning the unit for repair. We offer a guaranteed lifetime repair service on all TheatreCom products. Please use the original packaging.

9 Product Range

Part:	Description:	Contents:
TL-2	Basic TheatreCom LED stage lighting kit	TL-C lighting control (mains powered) 2 x TL-L LED Floodlight 1 x TL-C10 10m TheatreCom LED cable 1 x TL-C5 5m TheatreCom LED cable
TL-4	Enhanced TheatreCom LED stage lighting kit	TL-C lighting control (mains powered) 4 x TL-L LED floodlight 1 x TL-C20 20m TheatreCom LED cable 1 x TL-C10 10m TheatreCom LED cable 2 x TL-C5 5m TheatreCom LED cable
TL-5	Enhanced+ TheatreCom LED stage lighting kit	TL-C lighting control (mains powered) 5 x TL-L LED floodlight 1 x TL-C20 20m TheatreCom LED cable 1 x TL-C10 10m TheatreCom LED cable 3 x TL-C5 5m TheatreCom LED cable
+T2L	Upgrade of TL kit to twin-colour lighting control	As above with T2L-C twin colour lighting control
T2L-2F2S	Double Enhanced TheatreCom LED lighting kit	T2L-C twin-colour lighting control (mains powered) 2 x TL-L LED floodlight 2 x TL-S LED spotlight 2 x TL-C20 20m TheatreCom LED cable 2 x TL-C5 5m TheatreCom LED cable
T2L-4F2S	Double Enhanced+ TheatreCom+ LED lighting kit	T2L-C twin-colour lighting control (mains powered) 4 x TL-L LED floodlight 2 x TL-S LED spotlight 2 x TL-C20 20m TheatreCom LED cable 2 x TL-C10 10m TheatreCom LED cable 2 x TL-C5 5m TheatreCom LED cable
T2L-5F2S	Super Enhanced TheatreCom LED lighting kit	T2L-C twin-colour lighting control (mains powered) 5 x TL-L LED floodlight 2 x TL-S LED spotlight 2 x TL-C20 20m TheatreCom LED cable 2 x TL-C10 10m TheatreCom LED cable 3 x TL-C5 5m TheatreCom LED cable
TL-B	Base	Floor mounting base
TL-T	Stand	T-bar lighting stand for 4 x LED lights
TL-SC	Soft case	Soft carry case for lighting control and 2 LED lights or 3 LED lights
TL-C5	Cable	5m TheatreCom LED cable
TL-C10	Cable	10m TheatreCom LED cable
TL-C20	Cable	20m TheatreCom LED cable

TL-C??	Cable	Custom length TheatreCom LED cable
TL-S	LED light	LED Spotlight
TL-L	LED light	LED Floodlight
TL-C	Lighting control	Lighting control (mains powered)
T2L-C	Lighting control	Twin-colour lighting control (mains powered)

10 Technical Specifications

TL-C Lighting Control:	
Supply Voltage:	230Vac
Supply Current:	1.5A
	The mains plug must be fitted with a 3A fuse to protect the system
Integral Fuse	3.15AT (slow blow) 20mm fuse
Dimensions:	260(w) x 85mm(h) x 220mm(d)
Weight:	3.6kg
T2L-C Twin Colour Lighting Control:	
Supply Voltage:	230Vac
Supply Current:	2.5A
	The mains plug must be fitted with a 3A fuse to protect the system
Integral Fuse	3.15AT (slow blow) 20mm fuse
Dimensions:	320mm(w) x 85mm(h) x 275mm(d)
Weight:	5.0 kg
TL-L LED Floodlight:	
Power:	50W
Operating voltage:	48V
Maximum lights per lighting output	5
Dimensions:	220mm(w) x 330mm(h) x 55mm(d)
Weight:	1.90kg
TL-S LED Spotlight:	
Power:	40W
Operating voltage:	48V
Maximum lights per lighting output	5
Dimensions:	220mm(w) x 330mm(h) x 55mm(d)
Weight:	1.90kg

TL-B Floor Mounting Base:	
Stand material:	Powder-coated mild steel
Dimensions:	180mm(w) x 25mm(h) x 180mm(d)
Weight:	1.05kg
TL-T T-bar Stand	
Stand material:	Powder-coated mild steel
Min height:	1240mm
Max height:	2730mm
Transport length:	1080mm
Crossbar length:	920mm
LED Cable:	
Specification:	5 core 16/0.2mm unscreened cable
Connector:	9 way D-type socket / plug

11 Warranty

Top Hex Ltd covers this product against defects in workmanship and materials in its manufacture for a period of one year from the date of shipment. This warranty covers the original buyer of this product only.

The warranty does not cover faults arising from misuse, unauthorised modifications or accidents. If this TheatreCom product is faulty, you should send it in its original packaging to TheatreCom at the address below, with shipping prepaid. Please include details of the fault found and a copy of the supplier's invoice.

To reduce the risk of electrical shock, do not remove the cover on this TheatreCom product. There are no parts under the cover, which you need to access. If you remove the cover, the warranty is no longer valid.

We offer a lifetime repair guarantee on this product; please contact us for details.

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